

CUSTOMER NO.: 24498
Serial No.: 09/869,492
Office Action dated: February 9, 2006
Response dated: May 8, 2006

PATENT
RCA 89,855

Listing of the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (previously presented) A stereophonic expansion circuit, comprising:
means for processing (L+R) and (L-R) signals, and
means for providing tonal compensation for the (L+R) signal by increasing an amplitude of the (L+R) signal in a bass frequency band relative to a mid-range frequency band.
2. (previously presented) The stereophonic expansion circuit of claim 1 wherein the tonal compensation is further provided by increasing the amplitude of the (L+R) signal in a treble frequency band relative to the mid-range frequency band.
3. (previously presented) The stereophonic expansion circuit of claim 1 wherein the (L-R) signal is processed by increasing an amplitude of the (L-R) signal in the mid-range frequency band.
4. (previously presented) The stereophonic expansion circuit of claim 1 wherein the (L+R) signal is tonally compensated to be complementary to a frequency curve of the (L-R) signal.
5. (previously presented) The stereophonic expansion circuit of claim 1 wherein the tonal compensation can be switched between "ON" and "OFF" modes.
6. (previously presented) The stereophonic expansion circuit of claim 5 wherein stereophonic expansion can be switched between "ON" and "OFF" modes and the tonal compensation is switched "OFF" when the stereophonic expansion is switched "OFF".
7. (previously presented) The stereophonic expansion circuit of claim 5 wherein a switchable gain boost is provided for the (L+R) signal.

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8. (previously presented) The stereophonic expansion circuit of claim 7 wherein the gain boost is switched "OFF" when the tonal compensation is switched "OFF".

9. (previously presented) The stereophonic expansion circuit of claim 1 wherein the tonal compensation for the (L+R) signal is provided with respect to the (L-R) signal.

10. (previously presented) A stereophonic expansion circuit having (L+R) and (L-R) signal paths including circuitry operative to provide tonal compensation for the (L+R) signal path by increasing an amplitude of an (L+R) signal in a bass frequency band and a treble frequency band relative to a mid-range frequency band, and wherein the tonal compensation of the (L+R) signal path is approximately complementary to a tonal frequency response of the (L-R) signal path.

11. (previously presented) The stereophonic expansion circuit of claim 10 wherein the tonal compensation is switchable between "ON" and "OFF" modes.

12. (previously presented) The stereophonic expansion circuit of claim 11 wherein stereophonic expansion is switchable between "ON" and "OFF" modes and the tonal compensation is switched "OFF" when the stereophonic expansion is switched "OFF".

13. (previously presented) The stereophonic expansion circuit of claim 11 wherein a switchable gain boost is provided in the (L-R) signal path.

14. (original) The stereophonic expansion circuit of claim 13 wherein the gain boost is switched "OFF" when the tonal compensation is switched "OFF".

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15. (previously presented) A method for providing stereophonic expansion, comprising:

generating (L+R) and (L-R) signals, and

providing tonal compensation for the (L+R) signal by increasing an amplitude of the (L+R) signal in a treble frequency band relative to a mid-range frequency band.

16. (previously presented) The method of claim 15 wherein the tonal compensation is further provided by increasing the amplitude of the (L+R) signal in a bass frequency band relative to the mid-range frequency band.

17. (previously presented) The method of claim 15 wherein the tonal compensation is switchable between "ON" and "OFF" modes.

18. (previously presented) The method of claim 17 wherein stereophonic expansion is switchable between "ON" and "OFF" modes and the tonal compensation is switched "OFF" when the stereophonic expansion is switched "OFF".

19. (previously presented) The method of claim 17 wherein a switchable gain boost is provided to increase an amplitude of the (L-R) signal in the mid-range frequency band.

20. (previously presented) The method of claim 19 wherein the gain boost is switched "OFF" when the tonal compensation is switched "OFF".